



Geared motors 3000 Range

Helical gear and IMfinity® induction motors
Axial, perpendicular or parallel output shaft
56 up to 23 000 Nm output torque
0.06 up to 110 kW transmissible power

LEROY-SOMER™

Nidec
All for dreams

Geared motors 3000

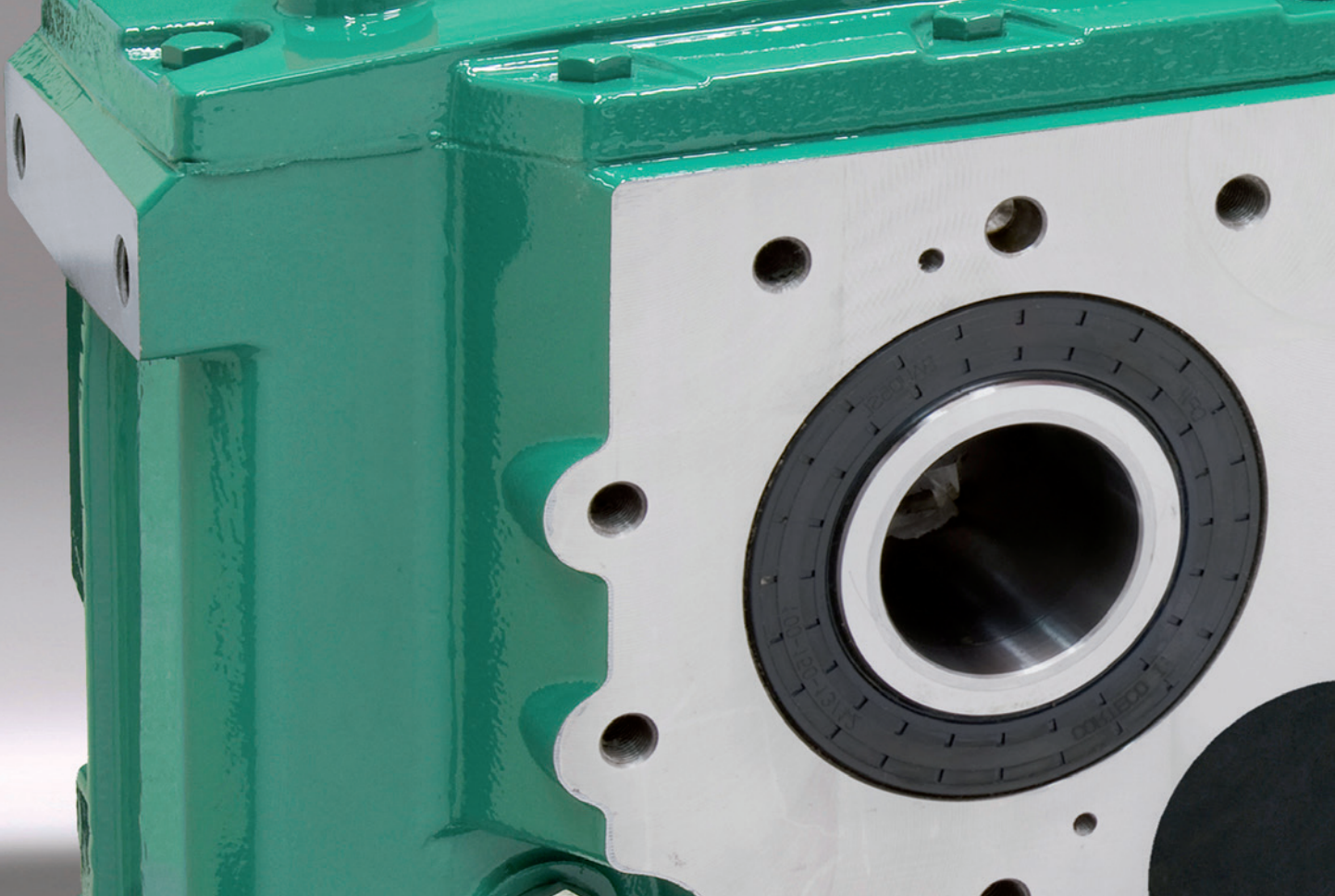
Pure know-how and experience

A range of geared motors improved over time

The gearboxes of the 3000 Range generation fully meet the market's needs for higher performance, simple implementation, easy maintenance, ruggedness, modularity, and availability.

The 3000 Range offers:

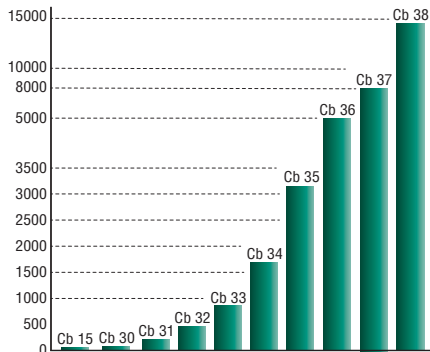
- Better service, with its compact and modular mounting concept
- A wide range of fitting solutions: smooth hole or tapped flange, feet or floating by torque arm
- An O-ring reinforced sealing system between motor and gearbox, flat under housing closing lid and double lip seal on rotating parts
- Bearings dimensioned to withstand the highest radial loads
- A one-piece cast iron housing for maximum resistance to shock and vibration



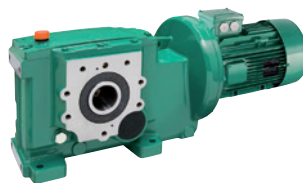
An extensive range suitable for the industrial applications



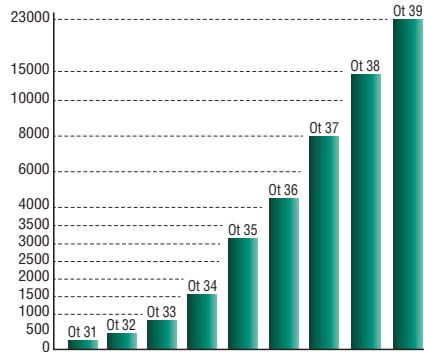
Compabloc 3000
up to 14 500 Nm
Axial output
Foot or flange mounting



10 sizes up to 14,500 N.m



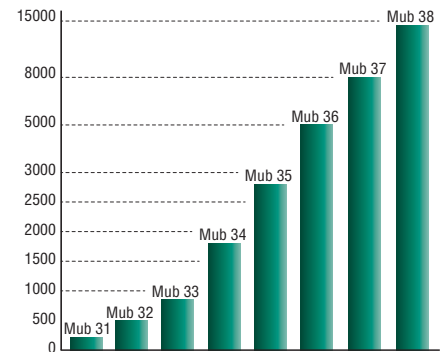
Orthobloc 3000
up to 23 000 Nm
Orthogonal output with solid shaft,
hollow shaft or hollow shaft with
shrink disc
Foot or flange mounting, or with
torque arm



9 sizes up to 23,000 N.m



Manubloc 3000
up to 14 500 Nm
Parallel output with solid shaft,
hollow shaft or hollow shaft with
shrink disc
Flange mounting or with torque
arm



8 sizes up to 14,500 N.m

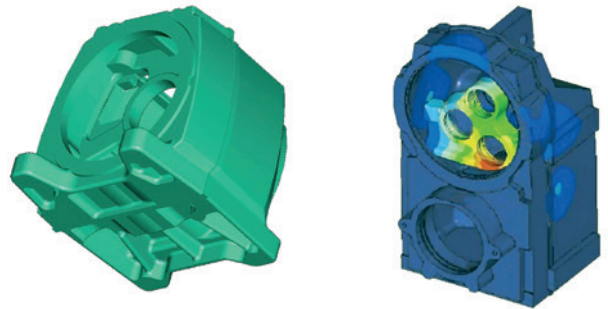
Geared motors

3000 Range

Reliability, Robustness

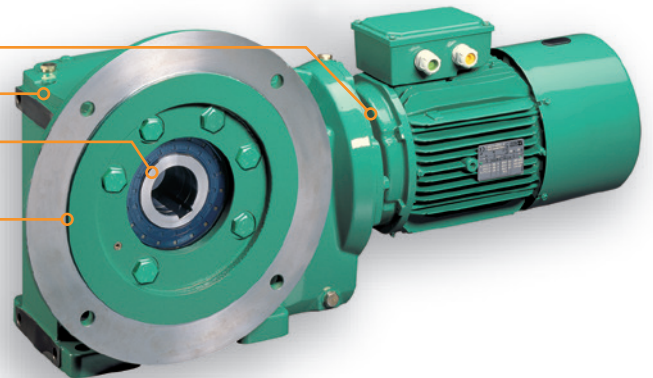
Studier housing

- Optimised by CAD modeling and calculations using finite elements, housings in the 3000 range can easily withstand the stresses involved in the most demanding applications
- The integral feet have excellent tensile strength and the ribbed casting prevents any deformation



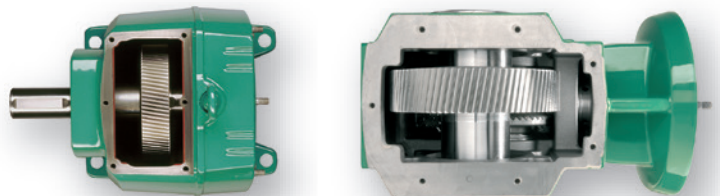
Protection

- Sealing ring on motor side
- Flat seal (under cover)
- Monobloc housing and gasket with dustproof lip-seals on the output shaft
- Independent seal on the output flange side



Easier maintenance

- Installation made easier by generous through-holes for the screws fixing the feet
- Opening on top for quick, clean filling, draining and inspection for preventive maintenance

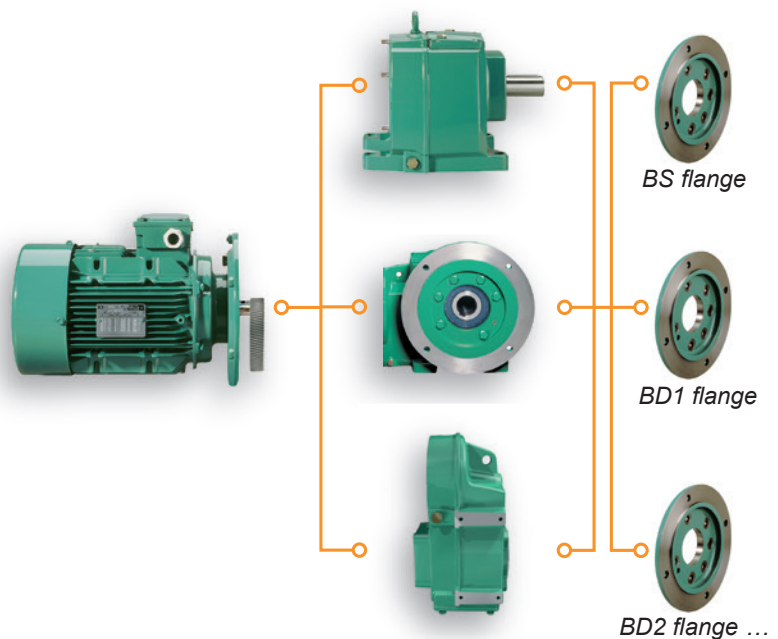




Geared motors 3000 Range Simple customization

Modular product for customized offer

- Possibility of changing the speed wheel without removing the gearbox
- Motor interchangeable on all 3 gearbox types
- Wide choice of flange for customer interface
- Multiposition operating product





Products designed to work together

Our advanced drives and geared motors technology and automation solutions are designed by focusing on maximizing energy savings across a wide range of industries, enhancing performance and optimizing productivity.

The new 3000 range of IMfinity® geared motors are developed to offer benefits from state of the art reliability and efficiency, giving customer the choice for an easy-to-select and easy-to-install solution.



Geared motors 3000 Range The focus of industries

3000 range geared motors are available in several different construction variants and finishes to meet the varied requirements of applications on the market. Whether for manufacturing with constraints on the load factor, cycle profile, productivity, etc, or for processes with harsh operating conditions and environments, there is a geared motor that fits the bill.

Typical industries:

Food & Beverage

Packaging

Printing

Plastics & Rubber

Port Logistics

Test Rigs

Textile



Glass

Industrial Refrigeration

Marine

Metals

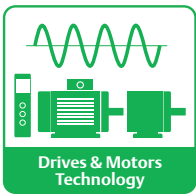
Mines, Quarries, Cement

Nuclear power

Water

Oil & Gas





Motor and drive technology

The widest range of geared motors and combinations adapted to the various needs of industries and applications

The 3000 geared motors range is designed to allow a large combination of adaptations, such as brakes, speed feedback (encoders), forced ventilation units, etc.

All of these geared motors, with or without special adaptation, are designed to work with variable speed drives, such as the Unidrive M & Powerdrive ranges.

Geared motors



Compabloc
Up to 14 500 Nm



Orthobloc
Up to 23 000 Nm



Manubloc
Up to 14 500 Nm

Brake motors



FFB
from 0.12 to 22 kW



FCPL
from 7.5 to 550 kW

Drives



Unidrive M
0.25 to 2.8 MW



Powerdrive F300
1.1 to 200 kW



Powerdrive MD Smart
45 kW to 2.8 MW



ID 300
Built-in variable speed drive
0.25 to 7.5 kW

IMfinity® motors



LS and LSES
Non-IE - IE2 - IE3
Aluminum IP55
Frame size from 80 to 315 mm
2, 4 and 6 poles
IE2-IE3: 0.75 to 200 kW
Non-IE: 0.12 to 45 kW



FLSES
IE2 - IE3
Cast iron* IP55
Frame size from 80 to 450 mm
2, 4 and 6 poles
0.75 to 400 kW

*Cast iron: up to 675 kW with the FLS model



FLSD
Gas or dust atmospheres
Up to 400 kW

Geared motors services

Customized local services and round-the-clock support



- Audit and consultation
- Industry leading install base audits
- Optimizing energy savings and payback
- Retrofit and system upgrades
- Installation and commissioning
- Comprehensive training
- Maintenance
- Global facilities and resources



A strong union that benefits all our customers

Through our integrated organization, we have an enhanced global presence with 5,500 employees. Our combined local support & services provide:

5,500 employees



40+ Automation Centers

Providing excellent customer support for any product, automation solutions or service requirements



23 Manufacturing sites

Producing a comprehensive range of high quality products, optimized for industry-specific customer requirements



8 Engineering and Design facilities

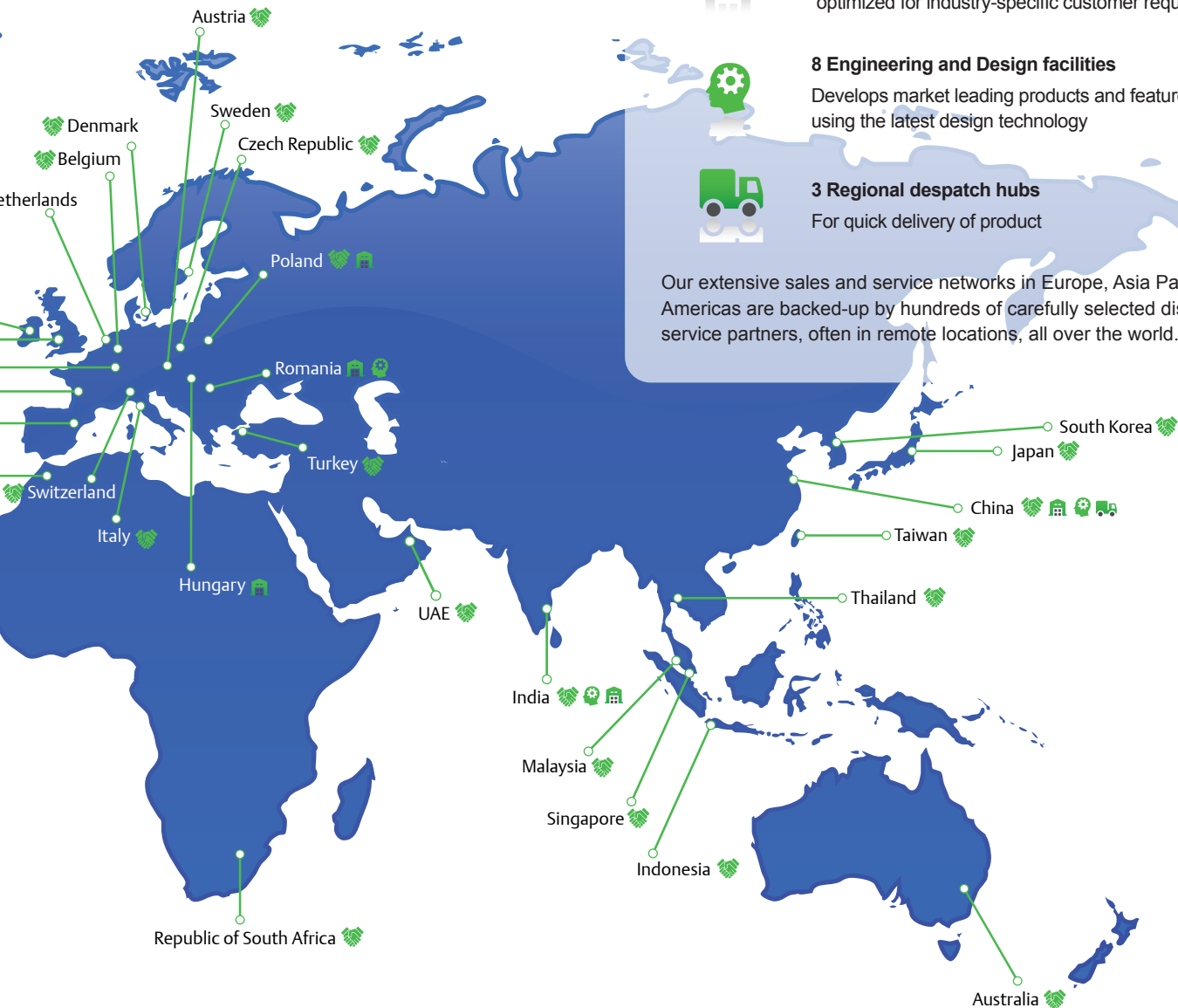
Develops market leading products and feature-sets using the latest design technology



3 Regional despatch hubs

For quick delivery of product

Our extensive sales and service networks in Europe, Asia Pacific and the Americas are backed-up by hundreds of carefully selected distributors and service partners, often in remote locations, all over the world.



Note that many countries have more than one of the facilities represented by the icons

Services are optimized on a country-by-country basis, so please contact your local sales contact for full details of our local offering.

Express availability

Boost and secure productivity

3000 range geared motors are a full part of our global logistic organization, offering very short lead times on many combinations. Express availability offers very quick reactivity to customer requirements, while boosting and securing their productivity:

- to benefit quickly from energy savings
- to help ensure continuity of production
- to minimize spares required on site

Most standard models from the 3000 range of geared motors can be shipped on the same day for any orders placed before 11.30 am. A wide variety of motors with options are available in 2 or 10 working days, such as:

- Mechanical adaptations: foot and flange mounting, roller bearings, drip cover, stainless steel nameplate, etc
- Electrical adaptations: 400 V winding (star connection) for motors rated ≥ 7.5 kW, non-PTC sensors fitted, etc
- Adaptations for variable speed particular conditions (Main power voltage $> 480V$, long cable, ...): insulated bearings, reinforced insulation, forced ventilation unit, etc
- Geared motors with various different combinations (helical in-line, right angle, parallel shaft or worm) and options.

The wide variety of products, options and combinations available from Express Availability (motors, geared-motors and drives) covers the majority of application and industry needs.



Catalogue extract:

Express Availability - Geared motors

Geared motors IMfinity® IE3 class Helical gears COMPABLOC, MANUBLOC, ORTHOBLOC Standard environment - Fixed speed

Integral mounting	MI
Universal mounting	MU
Input shaft mounting	AP

AVAILABILITY TIMES EX WORKS (FRANCE), IN WORKING DAYS

Orders received, within the maximum quantity limit, by the factory on day D before 12:00 pm Central European Time, will have the following Availability.

For products with options, availability will be that of the longest lead-time item i.e. the product or its options.

If the order is received after 12:00 pm 1 working day on the mentioned availability will be added.

The maximum quantity is per line of order. Above this maximum quantity, please consult your Sales Office.

D	D + 1	D + 2	D + 5	D + 10	Please consult
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IMfinity® IE3 class associated motors 4p (motors in italics excepted NC: Not Covered by IE Standards)

				IE3 class 230 V Δ / 380 V Y / 400 V Y / 415 V Y 50 Hz - 460 V Y 60 Hz 380 V Δ / 400 V Δ / 415 V Δ / 690 V Y 50 Hz - 460 V Δ 60 Hz														
Type	IE	Mounting	Rated power <i>P_n</i> kW	400 V														
				Cb 15-	Cb 30-	Cb 31- Ot 31- Mub 31-	Cb 32- Ot 32- 33- Mub 32-	Cb 33- Ot 34- Mub 33-	Cb 34- Ot 35- Mub 34-	Cb 35- Mub 35-	Cb 36-* Ot 36-* Mub 36-*	Cb 37-* Ot 37- 38-* Mub 37-*	Cb 38-* Mub 38-*	Ot 39-				
LS 56 M	NC	<i>MI or MU</i>	0.06	Y	5	5												
LS 56 M	NC	<i>MI or MU</i>	0.09	Y	5	5												
LS 63 M	NC	<i>MI or MU</i>	0.12	Y	5	5												
LS 63 M	NC	<i>MI or MU</i>	0.18	Y	5	5												
LS 71 L	NC	<i>MI or MU</i>	0.25	Y	5	5												
LS 71 L	NC	<i>MI or MU</i>	0.37	Y	5	5												
LS 71 L	NC	<i>MI or MU</i>	0.55	Y	5	5												
LSES 80 LG	IE3	<i>MI or MU</i>	0.75	Y	5	5												
LSES 80 LG	IE3	<i>MI or MU</i>	0.9	Y	5	5												
LSES 90 SL	IE3	<i>MI or MU</i>	1.1	Y	5	5												
LSES 90 LU	IE3	<i>MI or MU</i>	1.5	Y	5	5												
LSES 100 L	IE3	<i>MI or MU</i>	1.8	Y	5	5												
LSES 100 LR	IE3	<i>MI or MU</i>	2.2	Y	5	5												
LSES 100 LG	IE3	<i>MI or MU</i>	3	Y	5	5												
LSES 112 MU	IE3	<i>MI or MU</i>	4	Y														

IMfinity®

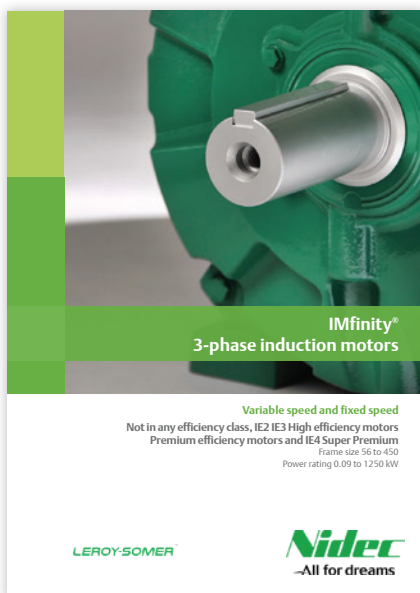
Make it your own

IMfinity® motors and geared motors fully comply with new regulations on efficiency and are tailored for variable speed and fixed speed operation. Powerful tools have been developed or adapted to help choose the right combination of motor and drive package or motor direct-on-line.

Motor technical catalogue

This catalogue contains in one single volume all the aluminum, cast iron IP55 and drip-proof IP23 motor ranges, with efficiency classes IE2, IE3, IE4 and NIE. For each efficiency class, performances are given when power is supplied to the drive or direct-on-line.

In addition to mechanical/electrical performance and dimensions, the IMfinity® catalogue provides information about regulations and motor markings in the different countries of the world.

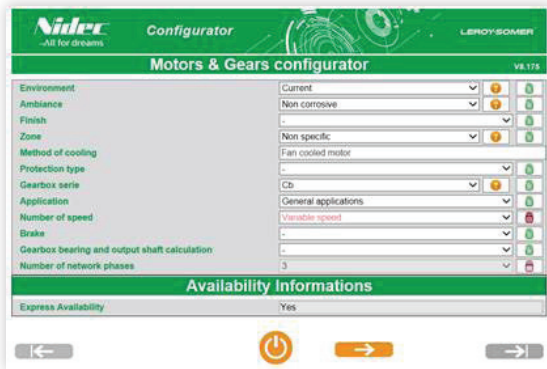


A dedicated guide is available for more information about new versions of the IEC standards and new projects currently in preparation, European directives and their updates as well as future regulations currently in preparation.

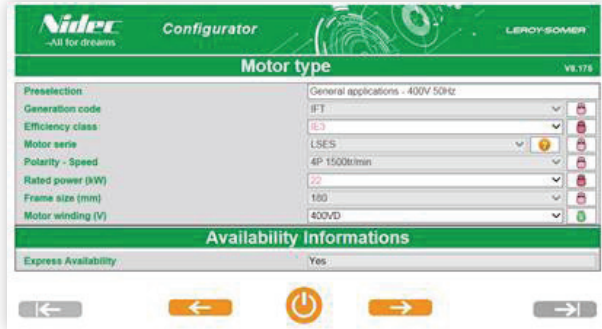
Configurator

Configurator is a powerful tool to assist in the selection of motors or geared motors combined with variable speed drives. Continuous evolution of this software reaches a new level with IMfinity motors and geared motors, giving the user the possibility to link-up the motor and drive selection.

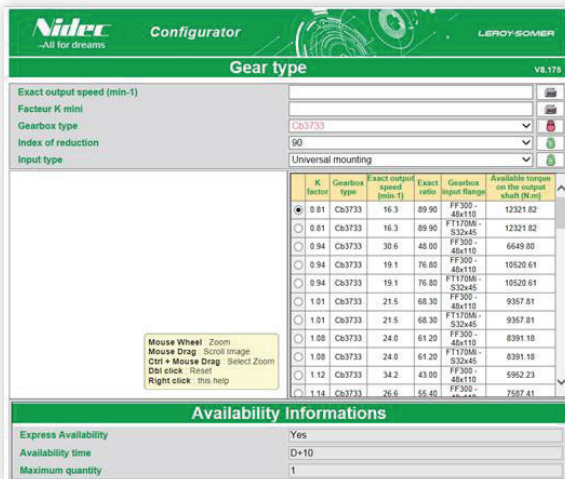
Best-in-class motors, geared motors and drives combined with this advanced tool ensure the best association is made when selecting products.



Gear selection



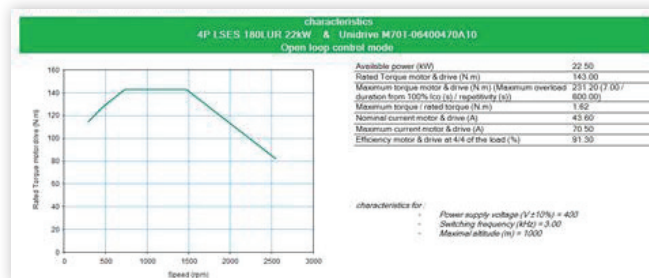
Motor selection



Gear selection, linked to motor selection



CAD files for geared motors (2D, 3D)



Geared motor + Drive package characteristics

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Nidec
All for dreams

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